A

PROJECT REPORT ON

"STOCK MANAGEMENT SYSTEM"

FOR THE DIPLOMA IN COMPUTER ENGINEERING

SUBMITTED BY

PATIL GAURAV BHAGWAN

CHIPATE SRUSHTI DEEPAK

DABHADE TEJASWINI ARUN

UNDER THE GUIDANCE OF

Mr. V. N. SHAHANE

DEPARTMENT OF COMPUTER ENGINEERING

CSMSS COLLEGE OF POLYTECHNIC,

CHH. SAMBHAJINAGAR MAHARASHTRA, INDIA

AND

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI

ACADEMIC YEAR 2023-24

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

COLLEGE OF POLYTECHNIC

KANCHANWADI, PAITHAN ROAD, CHH.

SAMBHAJINAGAR

A

PROJECT REPORT ON

"STOCK MANAGEMENT SYSTEM"

FOR THE DIPLOMA IN COMPUTER ENGINEERING

SUBMITTED BY

PATIL GAURAV BHAGWAN

CHIPATE SRUSHTI DEEPAK

DABHADE TEJASWINI ARUN

COMPUTER ENGINEERING THIRD YEAR

SUBMITTED TO

COMPUTER ENGINEERING DEPARTMENT

YEAR 2023-2024

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

COLLEGE OF POLYTECHNIC

s

CERTIFICATE

This is to certify that **Mr. PATIL GAURAV BHAGWAN, Ms. CHIPATE SRUSHTI DEEPAK, Ms. DABHADE TEJASWINI ARUN** from (Institute) **CSMSS College of Polytechnic** having Enrollment No. **2111520088, 2111520048, 2111520049** has Completed Project Planning Report having title **"STOCK MANAGEMENT SYSTEM"** in a group consisting of 3 Candidates under the guidance of faculty guide.

Name & Signature of Guide: _____

Name & Signature of HOD:_____

ACKNOWLEDGEMENT

It gives us a great pleasure to submit this project report on "**Stock Management System**". We would like to express our thanks to the people who have helped us most throughout our project. We would like to express our sincere thanks to the principal of CSMSS College of Polytechnic Dr. Ganesh B. Dongre for being always with us as a motivator. We are thankful to the H.O.D. of Computer Engineering Department, Mrs. R.V. Pophale for her kind support. We are grateful to our Project Guide Mrs.K.A.Sonavne for nonstop support and continuous motivation for the project. His help made us possible to complete our project with all accurate information.

A special thanks of our goes to our friends who helped us in completing the project, where they all exchanged their own interesting ideas. We wish to thanks our parents for their personal support or attention who inspired us to go our own way. Finally, we would like to thank God who made all things possible for us till the end.

1. **PATIL GAURAV BHAGWAN**
2. **CHIPATE SRUSHTI DEEPAK**
3. **DABHADE TEJASWINI ARUN**

ABSTRACT

This project is aimed at developing a desktop based application named Stock Management System for managing the stock system of any organization. The Stock Management System (SMS) refers to the system and processes to manage the stock of organization with the involvement of Technology system. This system can be used to store the details of the stock, stock maintenance, update the stock based on the sales details, and generate sales and stock report daily or weekly based. This project is categorize individual aspects for the sales and stock management system. In this system we are solving different problem affecting to direct sales management and purchase management. Stock Management System is important to ensure quality control in businesses that handle transactions resolving around consumer goods. Without proper stock control, a large retail store may run out of stock on an important item. A good stock management system will alert the wholesaler when it is time to record. Stock Management System is also on important means of automatically tracking large shipment. An automated Stock Management System helps to minimize the errors while recording the stock.

CONTENT

LIST OF TABLE

LIST OF FIGURE

1. INTRODUCTION

This is a **Stock Management System** in **PHP** and **MySQL Database**. This is a web-based application that provides an online and automated platform for shops or businesses. This project can manage the company's Purchase Orders, Receiving, Back Orders, returns, and Sales Records. The application has a pleasant user interface with the help of Bootstrap Library and Admin LTE template. This has also user-friendly functionalities.

This **Stock Management System** can be only accessed by 2 types of users which are the **System Admins** and **Staff**. The **Admin User** can access and manage all the pages, forms, and features do the web application does while the **Staff Users** have limited access only.

The Stock Records such as the Purchase Order, Receiving, etc. in this project have print features for each record. Talking about the flow of this project, first, the admin users must populate all the important lists which are the supplier list and the item list. Next, users will create a Purchase Order Record for a supplier. After that, users can receive the items in each purchase order which means PO Record is required in order to add stock of the item. Then, when receiving the items when the supplier will only deliver some of the items or not complete, the system will automatically create a new Back Order Record for the items that are not delivered yet. BO records work like the Purchase Order Record. Next, when the received items have problems, issues, or etc., the management can create the Return Record and upon saving this file, the system will also automatically deduct the damaged items to the stock availability. Lastly, the sales record is the record of the company for stocks that have been purchased by their clients or customers. Each stock listed in the sales record will also be deducted from the stock availability.

1.1 Objective of this project:

1. User-friendly.
2. Time saving.
3. Safe and secure data.

1.2 System Testing:

1. Verify that the system allows to create a new account.
2. Verify that the users are able to see all regulations and rules.

1.3 Features of this project:

1. Secure Login and Logout
2. Manage Supplier List (CRUD)
3. Manage Item List (CRUD)
4. Manage Purchase Order Records
5. Manage Receiving Records

1.4 Action plan:

Sr. No.	Details Of Activity	Planned Start Date	Planned End Date	Name Of Responsible Team Members
1.	Designing Of GUI Of the System	24/08/2022	07/09/2022	All Team Members
2.	Creation Of Database	14/09/2022	28/09/2022	All Team Members
3.	Implementation	05/10/2022	19/10/2022	All Team Members
4.	Testing	26/10/2022	09/11/2022	All Team Members
5.	Project Report Writing	16/11/2022	30/11/2022	All Team Members
6.	Project Presentation	07/12/2022	21/12/2022	All Team Members
7.	Project Demo	**As per notice**		All Team Members
8.	Defiance			All Team Members

2. LITERATURE SURVEY

Stock Management system is software that is widely used by retailers, shopkeepers, manufacturing units, and other merchants across different businesses. It is used for managing the stock of products in their warehouse or in the shops. Gone are those days when a shop owner used to manage all his sales and accounts on paper.

1. Which products are available in stock or when to reorder a particular product?
2. How do they know that a particular product's stock is finished?
3. Which product sales have been high or which products had low sales?

So, here are some of the benefits of our project:

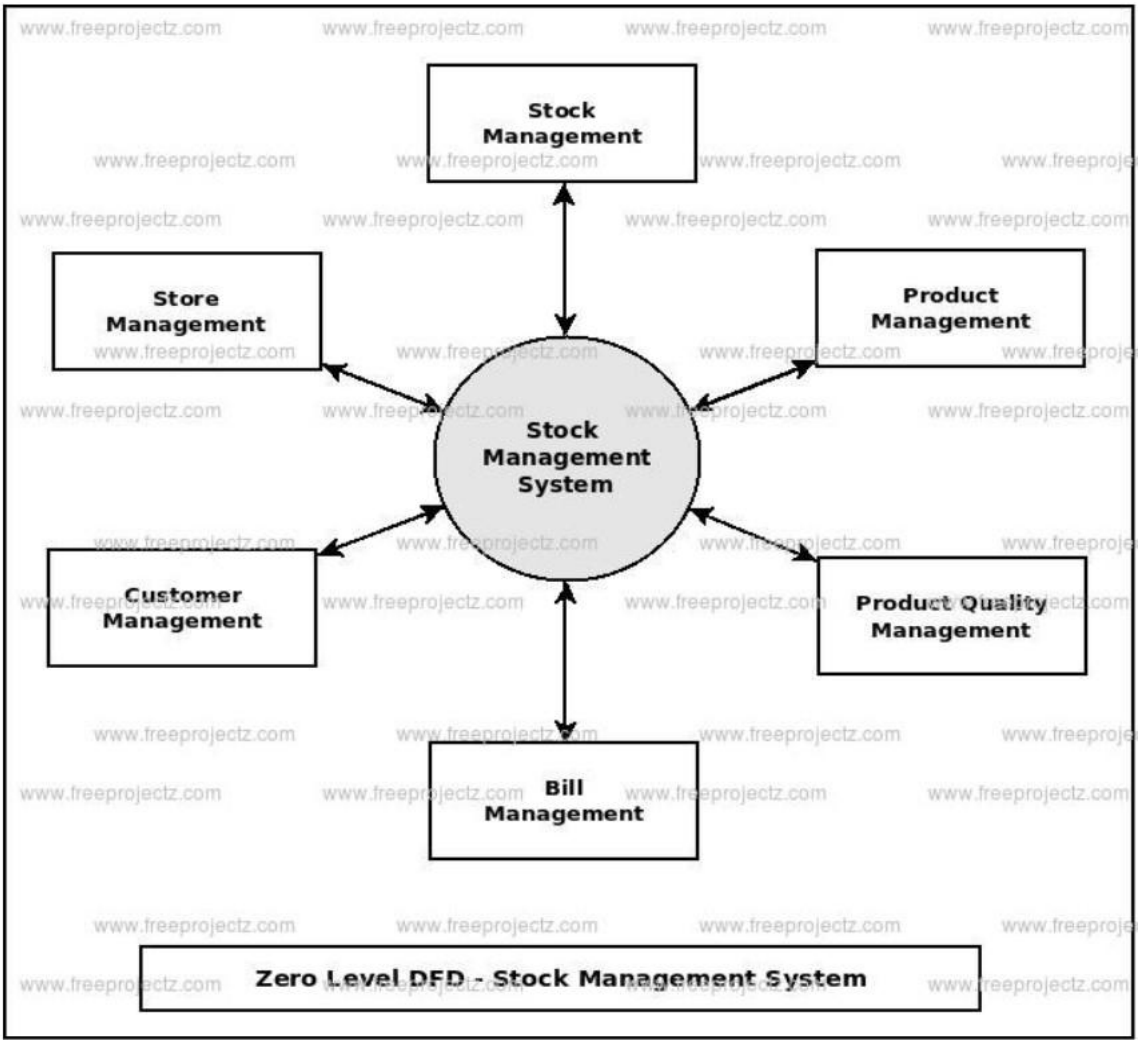
1. **Improved Efficiency:** A well-designed stock management system can automate many manual tasks, such as data entry, stock updates, and order processing. This leads to increased efficiency and reduces the risk of human errors.

2. **Real-time Tracking:** PHP-based stock management systems can provide real-time information about stock levels, allowing businesses to make informed decisions regarding restocking, inventory adjustments, and order fulfillment.

3. **Cost Savings:** By optimizing inventory levels and reducing instances of overstock or understock, businesses can minimize carrying costs and storage expenses, ultimately saving money.

4. **Security:** PHP has a robust security framework, and developers can implement security measures to protect sensitive inventory and financial data from unauthorized access.

2.1 DFD Diagram:



2.1 Overview of existing system:

The overview of an existing stock management system describes the current state of the system or processes in place for managing inventory or stock within an organization. This description typically includes the key components, methods, and characteristics of the system as it currently operates.

2.2 Overview of proposed system:

A Stock Management System, also known as an Inventory Management System, is a software application or system designed to efficiently manage and track an organization's inventory or stock of goods. The system's primary purpose is to streamline inventory operations, optimize stock levels, reduce costs, and improve overall inventory management processes.

2.3 Overview of proposed system:

2.3.1 Flow-Chart:

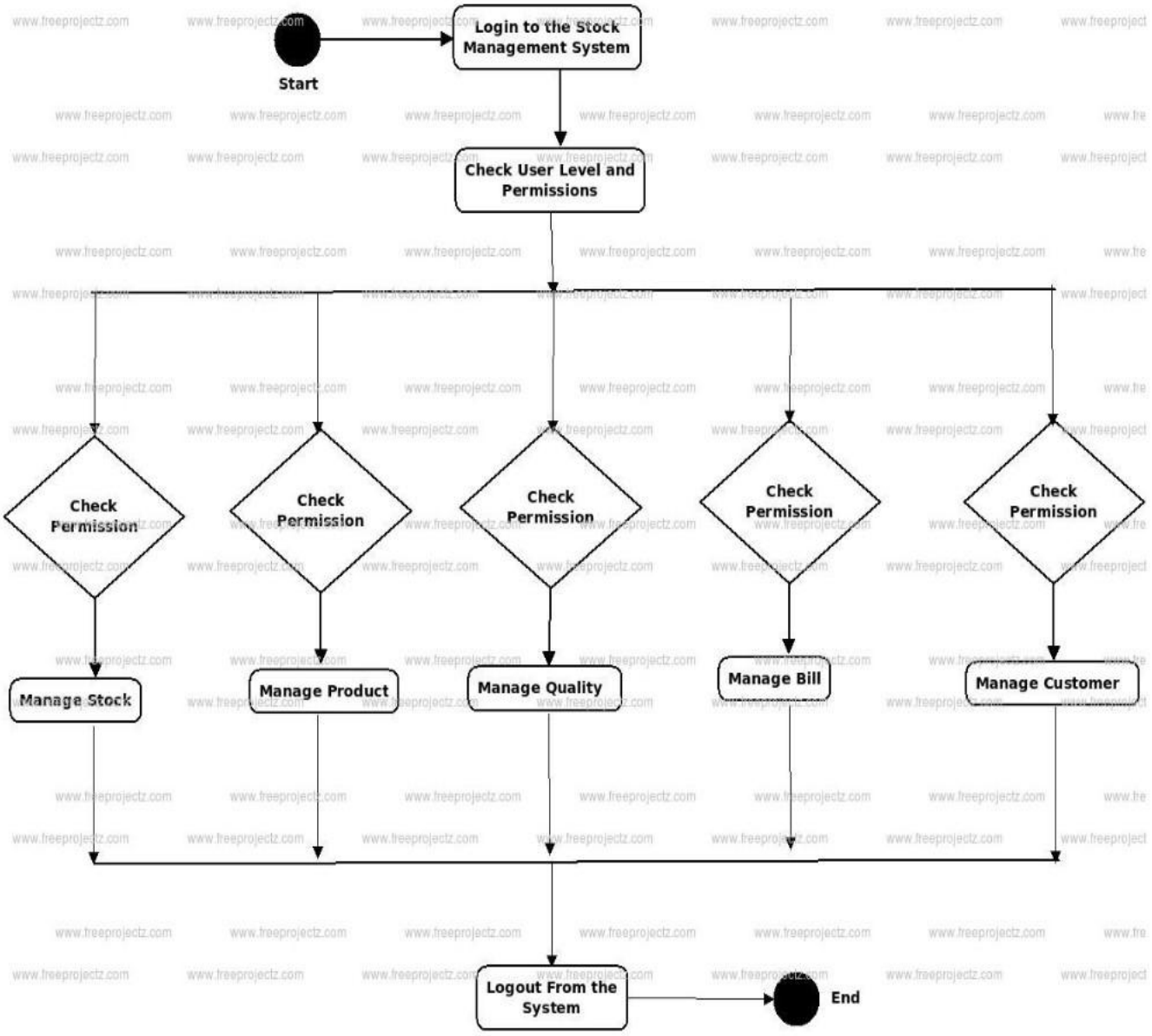


Fig: 2.1

2.3.2. Use Case Diagram:

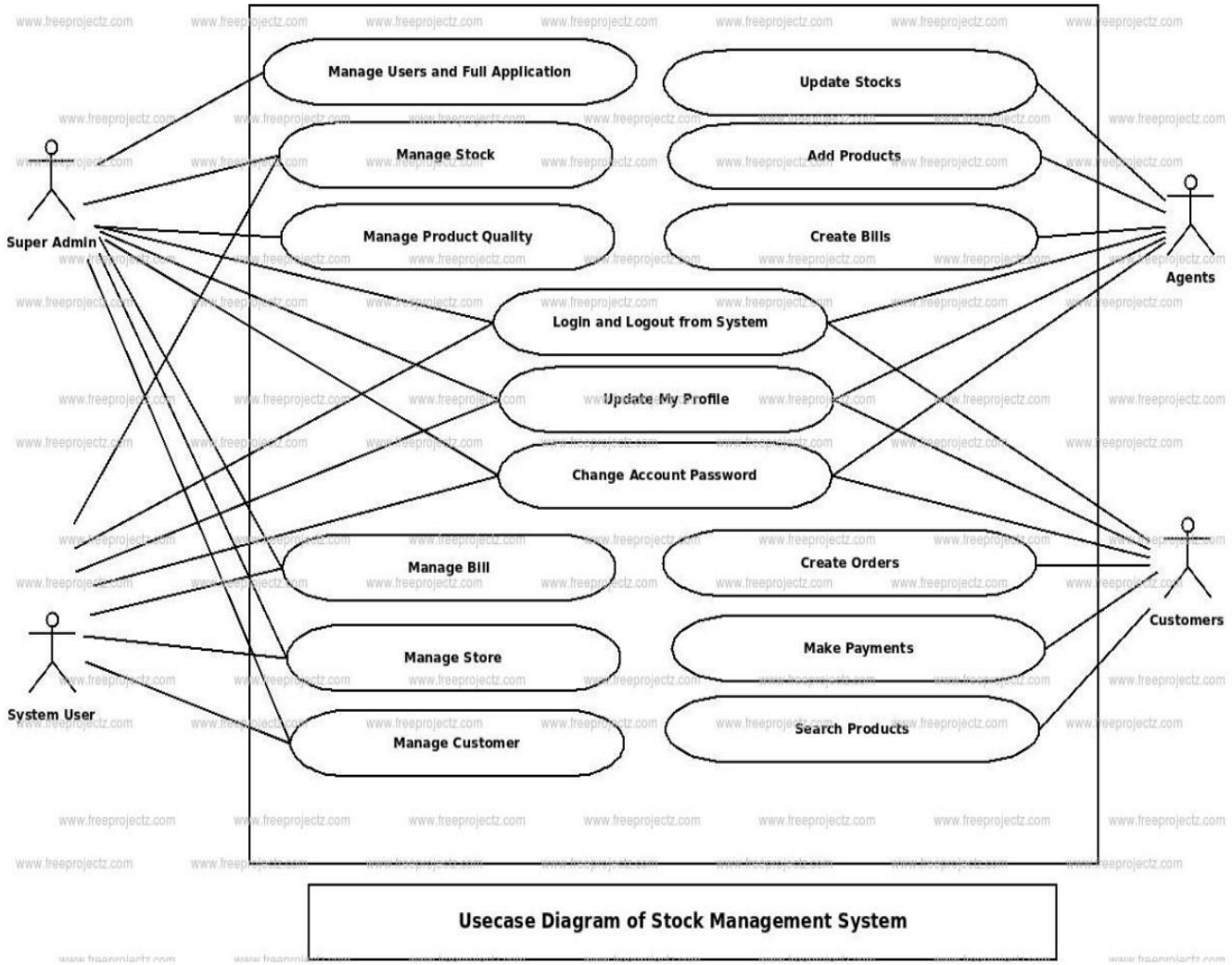


Fig. 2.2

2.4 User Module:

User can view and ordered food and book table.

2.5 Admin Module:

Admin administers, monitors and manages the overall website**.**

2.6 Default Admin Access Information:

Username: **admin**
Password: **admin123**

3. SCOPE OF THE PROJECT

3.1 Scope

Stock management System is targeted to the small or medium organization which doesn't have many warehouses only to those organization that has single power of authority. Some of the scope are:

1. Only one person is responsible for assigning the details or records.
2. It is security driven.
3. Store house can be added as per the requirement.

3.2 Advantages:

1. Quick access to information.
2. Compliance and record keeping.
3. Cost reduction.
4. Data accuracy.
5. Enhanced productivity.

3.3 Features:

1. Data Consistency.
2. Easy to Use and Handle.
3. Easily Maintainable and Updateable.
4. Maintaining the data of Users.

4. METHODOLOGY

4.1 Main module and sub modules:

1. Product Management
2. Purchase Management
3. Sales Management
4. User Management

4.2 Planned Resources:

1. Compatible computer system.
2. Programming language- HTML, CSS, JAVASCRIPT.
3. Database- MySQL.

4.2.1 HTML:

1. HTML stands for Hyper Text Markup Language.
2. HTML is the standard markup language for Web pages.
3. HTML elements are the building blocks of HTML pages.
4. HTML elements are represented by <> tags.

4.2.2 PHP:

1. PHP is a recursive acronym for "PHP: Hypertext Preprocessor".
2. PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.
3. It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.
4. PHP is pleasingly zippy in its execution, especially when compiled as an Apache module on the Unix side. The MySQL server, once started, executes even very complex queries with huge result sets in record-setting time.

4.2.3 CSS:

1. CSS stands for Cascading Style Sheets.
2. CSS describes how HTML elements are to be displayed on screen, paper, or in other media.
3. CSS saves a lot of work. It can control the layout of multiple web pages all at once.
4. External stylesheets are stored in CSS files.

4.2.4 JAVASCRIPT:

1. JavaScript is a lightweight, interpreted programming language.
2. Designed for creating network-centric applications.
3. Complementary to and integrated with Java.
4. Complementary to and integrated with HTML.
5. Open and cross-platform.

4.2.5 MySQL:

MySQL is a relational database management system (RDBMS) developed by Oracle that is based on structured query language (SQL). A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or a place to hold the vast amounts of information in a corporate network.

5. DETAILS OF WORKING

5.1 Team structure

Teamwork in the workplace is an important factor for project success. Teamwork is important because it creates human energy. It amplifies the results of each member of your team such that the overall result is greater than the individual contributions made by each member.

Sr.No.	Member Name	Work Done
1. 2. 3.	Chipate Srushti Deepak. Patil Gaurav Bhagwan. Dabhade Tejaswini Arun.	Main Project Module Designing and Coding. (Team Leading)
1. 2. 3.	Chipate Srushti Deepak. Patil Gaurav Bhagwan. Dabhade Tejaswini Arun.	Project Report Writing and Database Designing
1. 2. 3.	Chipate Srushti Deepak. Patil Gaurav Bhagwan. Dabhade Tejaswini Arun.	Project Report Writing and Testing
1. 2. 3.	Chipate Srushti Deepak. Patil Gaurav Bhagwan. Dabhade Tejaswini Arun.	Project Interface Designing
1. 2. 3.	Chipate Srushti Deepak. Patil Gaurav Bhagwan. Dabhade Tejaswini Arun.	Project Code Implementation

Above table shows the team structure of our team for developing this project. Different types of work have been done by different team member.

5.2 Development schedule and milestone

Development of the project should have been done by predefined schedule. Because Success of the project is depending upon the planning and scheduling of various work task.

Following tasks are performed by us to complete this project:

1. Requirement Gathering
2. Feasibility Study
3. Planning
4. Estimation
5. Scheduling
6. Requirement Analysis
7. Design
8. Database Design
9. Coding
10. Testing
11. Report Writing
12. Deployment and Submission

5.2.1 Development Tools:

We require software and hardware for developing the project. Coding and Designing of the software is done by development tools. We used following Development tools for developing the project.

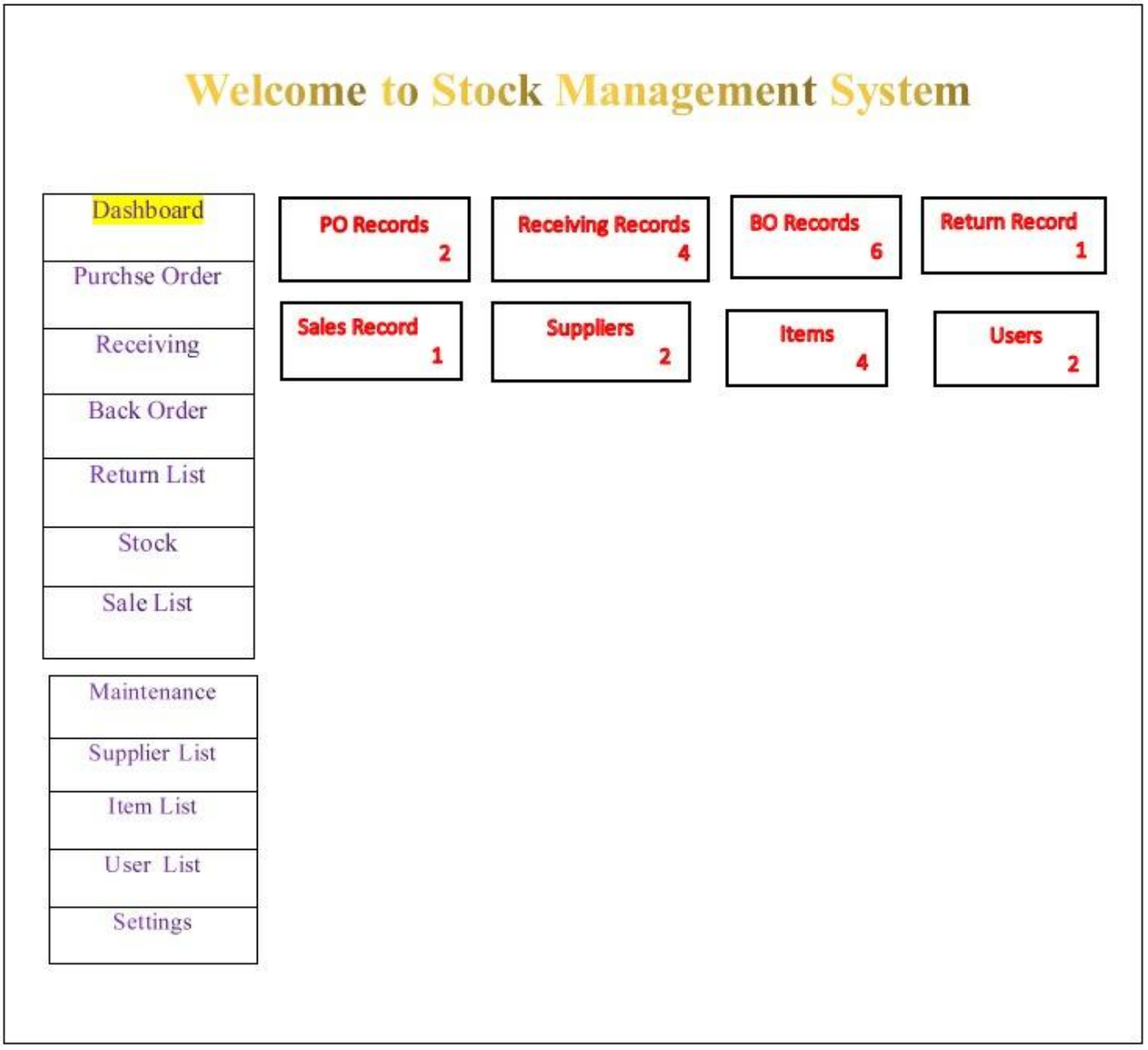
Sr. No.	Development Tool	Specification
1.	Computer System	Processor Intel Core i5, RAM 8 GB, 1TB HDD
2.	Operating System	Windows 11
3.	Microsoft word	Microsoft Office 2019
4.	Notepad++	Version 7.8.3

6. DETAIL OF DESIGN

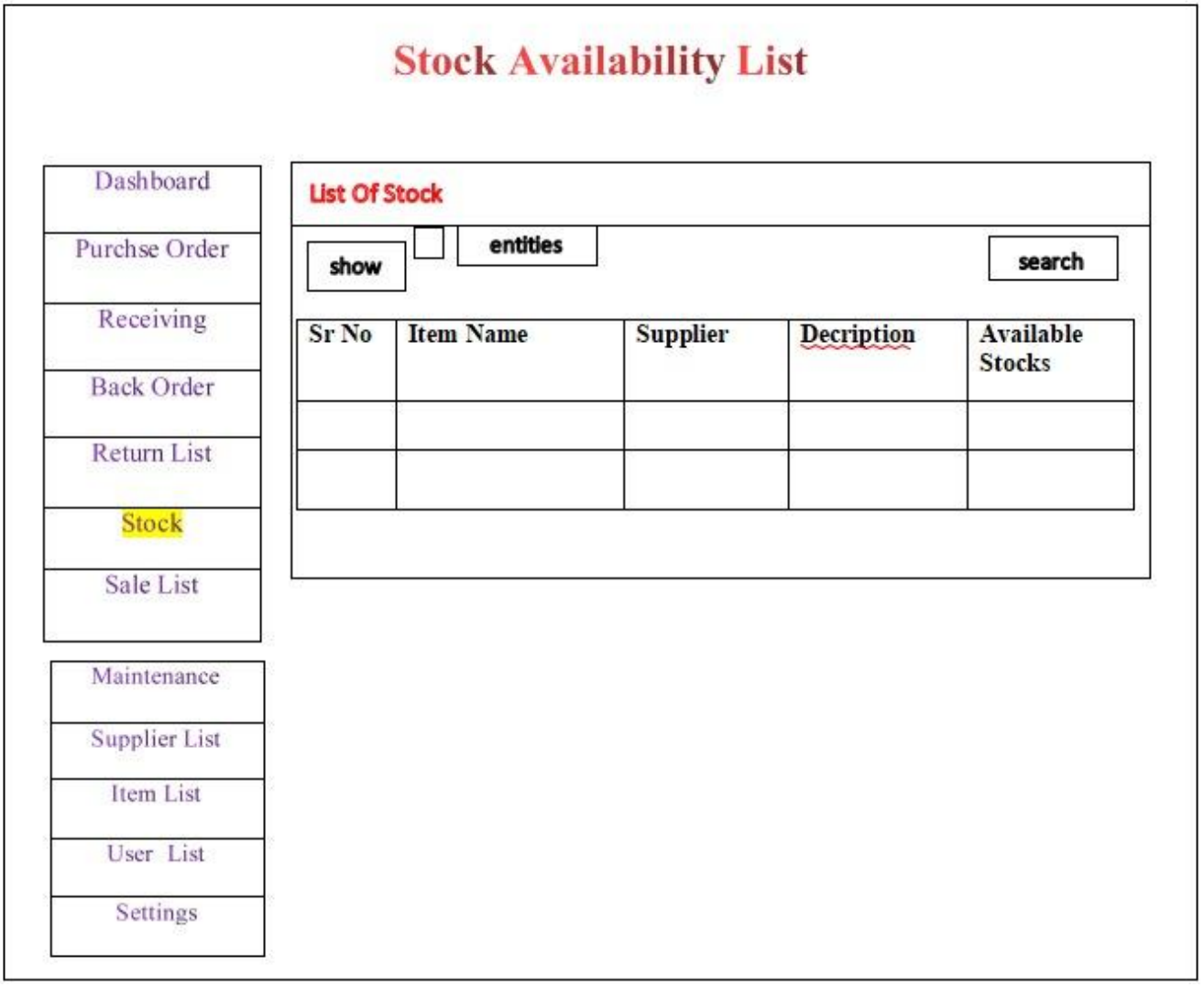
6.1 Structure

6.1.1 Home:

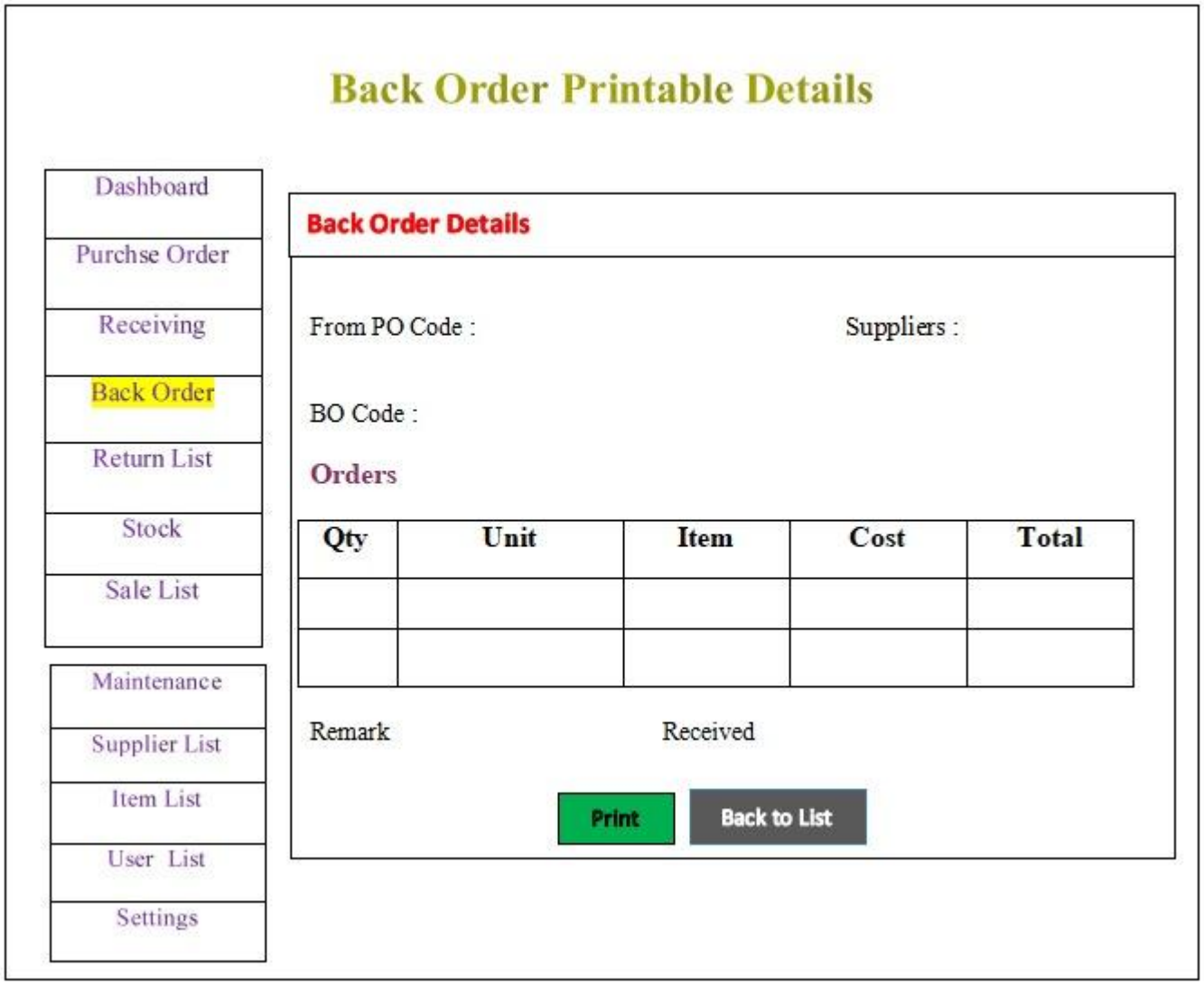
.



6.1.2 Stock Availability List:



6.1.3. Back Order Printable Details:



7. CONCLUSIONS AND FUTURE SCOPE:

7.1 Conclusion:

Stock Management System is a simple desktop application basically suitable for small organization. It has every basic items which are used for the small organization. Our team is successful in making the application where we can update, insert and delete the item as per the requirement. This application also provides a simple report on daily basis to know the daily sales and purchase details. This application matches for small organization where there small limited if warehouse.

Through it has some limitations, our team strongly believes that the implementation of this system will surely benefit the organization.

7.2 Future scope:

The future scope of Stock Management Systems is highly promising and dynamic. These systems will increasingly integrate AI and machine learning to enhance demand forecasting and decision-making. IoT technology will enable real-time tracking and monitoring, while blockchain will contribute to supply chain transparency. Cloud-based solutions will become more prevalent due to scalability and accessibility, and mobile apps will offer improved user experiences. Advanced reporting and analytics, e-commerce integration, sustainability tracking, and enhanced security will be central to future systems. Additionally, compliance with evolving regulations and adaptability to global supply chain needs will be key considerations. Customization and integration capabilities will remain crucial for tailoring stock management systems to diverse business requirements.

8. REFERENCES:

1. www.jetir.org
2. www.researchgate.net
3. www.w3schools.com
4. www.tutorialspoint.com